Genentech
A Member of the Roche Group

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Vineeta Bajaj, PhD
Review Editor
JoVE

RE: JoVE62377

Dear Dr Bajaj,

Thank you for reviewing our manuscript "gP2S, an information management system for cryoEM experiments." We have revised it to address editorial and peer review comments, as detailed below.

Best regards,

Alexis Rohou

Editorial and production comments

Changes to be made by the Author(s):

1. Please take this opportunity to thoroughly proofread the manuscript to ensure that there are no spelling or grammar issues.

> Done.

2. Please use continuous line numbering. Use 12-pt Calibri font throughout the text and maintain a 0-inch left indent throughout the text and indicate new paragraphs using single-line spacing. Also, remove the footers from the text.

> Done.

3. Avoid webpage addresses as much as possible in the text. If necessary, only add the text of the hyperlink, preferably within parentheses. E.g.: (http://imagej.nih.gov/ij/download.html).

> Removed most hyperlinks. Remaining ones follow this convention.

4. JoVE policy states that the video narrative is objective and not biased towards a particular product featured in the video. The goal of this policy is to focus on science rather than to present a technique as an advertisement for a specific item. Please do not use commercial terms and remain neutral in tone. Do not refer to Genentech in the text and include limitations of the protocol in the discussion section.

> We have removed all but one mention of Genentech, which is necessary since the "g" in "gP2S" stands for Genentech, and we need to introduce the abbreviation.

5. Please adjust the numbering of the Protocol to follow the JoVE Instructions for Authors. For example, 1 should be followed by 1.1 and then 1.1.1 and 1.1.2 if necessary. Please refrain from using bullets or dashes.

> Done.

6. Please consider moving all the frontend, backend and data storage libraries to a table and upload the table as .xlsx file to the editorial manager account. For the data model, please use paragraph style instead.

> Done. See new Table 1.

7. The Protocol should be made up almost entirely of discrete steps without large paragraphs of text between sections.

> Done.

8. Please ensure that all text in the protocol section is written in the imperative tense as if telling someone how to do the technique (e.g., "Do this," "Ensure that," etc.). The actions should be described in the imperative tense in complete sentences wherever possible. Avoid usage of phrases such as "could be," "should be," and "would be" throughout the Protocol. Any text that cannot be written in the imperative tense may be added as a "Note."

> Done.

9. Please ensure the protocol is divided into sections as applicable.

> Not sure whether this applied here.

10. If button clicks/menu selections are identified (e.g., quotes or cursive text has been used), change them to bold text. Use either | or > between the clicks/selections, and do not use ◊ or other symbols. Example: "File ◊ Options ◊ Advanced" becomes File > Options > Advanced or File | Options | Advanced

> Done.

11. Use appropriate symbols for units. E.g. use "μm" instead of "um" (line 297, etc.),

> Thanks. Done.

12. JoVE cannot publish manuscripts containing commercial language. This includes trademark symbols (™), registered symbols (®), and company names before an instrument or reagent. Please remove all commercial language from your manuscript and use generic terms instead. All commercial products should be sufficiently referenced in the Table of Materials. In the figures, mask the manufacturer names/logos/model names or numbers from the instruments shown.

> Other than "Genentech", I didn't find any occurrences of this. Please advise if I missed something.

13. Please revise the protocol text to avoid the use of any personal pronouns in the protocol (e.g., "we", "you", "our" etc.).

> Done.

14. Please ensure that the video is a cohesive story of the protocol. All steps need not be shown but will remain in the manuscript, and therefore will still be available to the reader.

> Work in progress. We expect to submit the video for review in a few days.

15. Please ensure that the representative results section contains a figure or a table and are described in the context of the presented technique: you performed an experiment, how did it help you to conclude what you wanted to and how is it in line with the title.

> I believe this was already the case.

16. Please place the figure and table legends section after the Representative results section. Also please upload each figure individually to your editorial manager account.

> Done.

17. Please ensure that the references appear as the following: [Lastname, F.I., LastName, F.I., LastName, F.I. Article Title. Source. Volume (Issue), FirstPage – LastPage (YEAR).] For more than 6 authors, list only the first author then et al. Do not abbreviate journal names.

> I believe this was already the case.

18. Please include a table of the essential supplies, reagents, and equipment used. The table should include the name, company, and catalog number of all relevant materials in separate columns in an xls/xlsx file. Please sort the Materials Table alphabetically by the name of the material.

> Table included, though non applicable.

Peer review comments

We thank both reviewers for their time reviewing the manuscript.

Reviewer #1

We thank reviewer #1 for their feedback, which consisted of questions regarding features in the application, as well as suggestions for future features:

> *Minor Concerns:*
> *1. Is the application as an option of archiving a projects when finished?*
> *2. The author talk about the validation is there time line for this tool?*

3. For medium facility (University) I think more flexibility in the mandatory input field would be great

1. No, such an option is not available in gP2S at present. However, projects are listed in the main drop down in reverse chronological order of last use. In other words, most-recently-used projects are listed first. In practice, together with the on-the-fly search & filter feature of the dropdown, we believe this means users rarely have to "notice" old projects. We chose not to add wording to the manuscript to address this point – there are many features not present in gP2S and listing them exhaustively would detract from the description of existing features.

2. Our manuscript states "(…) including model validation, are under development and may be added to the open-source version of gP2S in future". Unfortunately, we cannot commit to a timeline at this point – this feature is still under development internally.

3. Thank you for the suggestion – I don't believe this is meant as feedback for the manuscript, but rather for the software itself. We would encourage the reviewer to submit this (and other) feedback via one of the websites (e.g. github) distributing the software.

Reviewer #2
This reviewer did not ask any questions nor suggest changes.